CLAIMS

1. A rotary fluid machine comprising:

a casing (11);

a rotor (27) rotatably supported in the casing (11);

an operating part (49, 57) provided in the rotor (27); and

a rotary valve (61) that is provided between the casing (11) and the rotor (27) and controls the intake and discharge of a working medium to and from the operating part (49, 57) via sliding surfaces (68) that are perpendicular to the axis (L) of the rotor (27);

wherein a working medium supply pipe (77) is provided separately from the rotary valve (61), the working medium supply pipe being positioned on the axis (L) of the rotor (27) and supplying the working medium to the rotary valve (61), and sealing means (97) is disposed between the working medium supply pipe (77) and the rotary valve (61), the sealing means (97) having the function of preventing movement of the working medium supply pipe (77) in the axial (L) direction of the rotor (27) from being transmitted to the rotary valve (61).

2. The rotary fluid machine according to Claim 1, wherein the sealing means (97) is a gland packing.

3. The rotary fluid machine according to Claim 2, wherein the rotary fluid machine further comprises working medium recovery means (94, 18e) for recovering working medium that has leaked past the sealing means (97).

4. The rotary fluid machine according to Claim 3, wherein the working medium recovery means (94, 18e) returns the recovered working medium to a downstream side of the operating part (49, 57).